CONTENTS OF *AQUATIC BOTANY*, VOLUME 36

VOL. 36 NO. 1 DECEMBER 1989

The influence of two triazine herbicides on the productivity, biomass and community composition of freshwater marsh periphyton
S.E. Gurney and G.G.C. Robinson (Winnipeg, Man., Canada) 1
The light and temperature dependence of photosynthesis and respiration in *Potamogeton pectinatus* L.
J.D. Madsen and M.S. Adams (Madison, WI, U.S.A.) 23
Influence of nitrogen supply rates on growth and nutrient storage by water hyacinth (*Eichhornia crassipes*) plants
K.R. Reddy, M. Agami and J.C. Tucker (Gainesville, FL, U.S.A.) 33
Natural selection and genetic adaptation to hypersalinity in *Juncus roemerianus* Scheele
L.N. Eleuterius (Ocean Springs, MS, U.S.A.) 45
Carrageenans of species of *Eucheuma* J. Agardh and *Kappaphycus* Doty (Solieriaceae, Rhodophyta)
G.A. Santos (Honolulu, HI, U.S.A.) 55
Effect of boat moorings on seagrass beds near Perth, Western Australia
D.I. Walker, R.J. Lukatelich, G. Bastyan and A.J. McComb (Nedlands, W.A., Australia) 69
Litter production in a mangrove stand of the Saudi Arabian Red Sea coast
S.M. Saifullah, A.K. Khafaji and A.S. Mandura (Jeddah, Saudi Arabia) 79
Growth and life span of the leaves of *Nelumbo nucifera* Gaertn. in Lake Kasumigaura, Japan
T. Tsuchiya and S. Nohara (Ibaraki, Japan) 87

Book Reviews
Aquatic weed control 97
Seaweed taxonomy 99
Assessing water quality 101
Marine microbiology 103
Experimental phycology 105
Freshwater algae of New Zealand 108

Guide for Authors 111

VOL. 36 NO. 2 FEBRUARY 1990

The epiphyte community of mangrove roots in a tropical estuary: distribution and biomass
C. Rodriguez and A.W. Stoner (Mayaguez, Puerto Rico) 117
Short-term pigment response of *Corallina elongata* Ellis et Solander to light intensity
P. Algarra and F.X. Niell (Malaga, Spain) 127
Year-to-year variation in peak above-ground biomass of six salt-marsh angiosperm communities as related to rainfall deficit and inundation frequency
J. de Leeuw (Yerseke, The Netherlands), H. Olff and J.P. Bakker (Haren, The Netherlands) 139
Depth-related structural and morphological variations in an Australian *Posidonia* seagrass bed
R.J. West (Cronulla, N.S.W., Australia) 153
Germination and seedling development of *Halophila engelmannii* Aschers. (Hydrocharitaceae)

under axenic conditions
J. Jewett-Smith (Port Aransas, TX, U.S.A.) and C. McMillan (Austin, TX, U.S.A.) 167
Effects of nutrient and litter manipulations on the narrow-leaved cattail, *Typha angustifolia* L.
T.E. Jordan, D.F. Whigham and D.L. Correll (Edgewater, MD, U.S.A.) 179
Patterns of variation in Ontario wild rice (*Zizania aquatica* L.) 4. Influence of regional and local environmental factors on variation within and among field populations
R.L. Counts (Fredericton, N.B., Canada) and P.F. Lee (Thunder Bay, Ont., Canada) 193
Plasticity in morphology, proximate composition, and energy content of *Hygrophila polysperma* (Roxb.) Anders.
P.S. Potts, J.M. Lawrence, B.W. Witz and C.W. Kovach (Tampa, FL, U.S.A.) 207

Erratum 215

VOL. 36 NO. 3 MARCH 1990

The leaf internal morphology and ultrastructure of *Zostera muelleri* Irmisch ex Aschers. (Zosteraceae): a comparative study of the intertidal and subtidal forms
J. Kuo and R.W. Ridge (Nedlands, W.A., Australia) and S.V. Lewis (Parkville, Vic., Australia) 217
Intertidal macroalgae as refuge and food for amphipoda in Central Chile
A.H. Buschmann (Osorno, Chile) 237
Charophyte germination and establishment from the seed bank of an Australian temporary lake
M.T. Casanova and M.A. Brock (Armidale, N.S.W., Australia) 247
A study of the vertical zonation of intertidal fungi on *Rhizophora apiculata* at Kampong Kapok mangrove, Brunei
K.D. Hyde (Mareeba Qld., Australia) 255
Seasonal growth of *Pistia stratiotes* L. in south Florida
L.B. Dewald and L.P. Lounibos (Vero Beach, FL, U.S.A.) 263

Short Communications
Production of viable seeds by water lettuce, *Pistia stratiotes* L., in Australia
K.I.S. Harley (Indooroopilly, Qld., Australia) 277
Alkanes of surface waxes from eight species of aquatic angiosperms
M.C.E. Amaral and A. Salatino (Sao Paulo, Brazil) and A.J.R. Silva (Rio de Janeiro, Brazil) 281
Occurrence of vesicular — arbuscular mycorrhizae in tropical hydrophytes
S. Ragupathy, V. Mohankumar and A. Mahadevan (Madras, India) 287
Effect of cutting of aboveground organs of *Typha angustata* Bory & Chaub on its growth and total chlorophyll content
K.P. Sharma and S.P.S. Kushwaha (Jaipur, India) 293

Book Reviews
Biology of seagrasses 297
Marine plants of the Caribbean 299

Erratum 301

VOL. 36 NO. 4 **APRIL 1990**

Strategy analysis of submerged lake macrophyte communities: an international example
K.J. Murphy (Glasgow, Gt. Britain), B. Rørslett (Oslo, Norway) and I. Springuel (Aswan, Egypt) 303
Mercury sulphide (HgS) crystals in the cell walls of the aquatic bryophytes, *Jungermannia vulcanicola* Steph. and *Scapania undulata* (L.) Dum.
K. Satake, K. Shibata and Y. Bando (Ibaraki, Japan) 325
Influence of planting depth on *Potamogeton gramineus* L.
D.F. Spencer and G.G. Ksander (Davis, CA, U.S.A.) 343
A new subspecies of *Halophila ovalis* (R.Br) J.D. Hook. (Hydrocharitaceae) from the Eastern Coast of peninsular India
K. Ravikumar and R. Ganesan (Coimbatore, India) 351
Salinity response of the seagrass *Amphibolis antarctica* (Labill.) Sonder et Aschers.: an experimental validation of field results
D.I. Walker and A.J. McComb (Nedlands, W.A., Australia) 359
Population dynamics in overlapping zones of *Phragmites australis* and *Miscanthus sacchariflorus*
S. Yamasaki (Chiba, Japan) 367
C_4 acid fixation in photosynthesis of the submerged aquatic *Eleocharis acicularis* (L.) R. & S.
B.A. Morton and J.E. Keeley (Los Angeles, CA, U.S.A.) 379

Short communications

Taxonomy of the bisexual species of *Ottelia* in China
J.B. He, X.Z. Sun and H.Q. Wang (Wuchang, Peoples Republic of China) 389
Ottelia emersa Z.C. Zhao et R.L. Luo (Hydrocharitaceae) — a synonym of *O. cordata* (Wallich) Dandy
J.B. He and X.Z. Sun (Wuchang, Peoples Republic of China) 395

Author Index 399